

KUJUNDZIC, Branislav, ing. (Beograd); JOVANOVIC, Lazar, ing. (Beograd)

Investigations on the permeability of water tunnels under pressure,
using the diaphragm method. Vodoprivreda Jug 2 no.4/5:144-152 '59.
(EEAI 9:10)

(Water tunnels)

14(10)

YUG/1-59-3-10/57

AUTHOR: Kujundžić, Branislav, Engineer, Scientific Assistant
(Beograd)

TITLE: The Diversion Tunnel of the Souk Wadi Barada Hydropower Plant (Dovodni tunel hidroenergetskog postrojenja Souk Wadi Barada)

PERIODICAL: Tehnika, 1959, Nr 3, pp 385-389 (YUG)

ABSTRACT: The author describes the construction of a 2,421-m diversion tunnel, 2 m diameter, at the Souk Wadi Barada Hydropower Plant in Syria, carried out by the "Elektrosrbija" Enterprise, Beograd, and consolidated by grouting by the "Elektrosond" Enterprise, Zagreb. The intake works, aquaduct, surge-tank, and penstock anchor-blocks for this power plant were also constructed by "Elektrosrbija". Test-fillings revealed losses of water in the conduit, caused by leakage, but before additional grouting could be carried out, splits in the

Card 1/2

YUG/1-59-3-10/57

The Delivery Conduit of the Souk Wadi Barada Hydropower Plant.

lining were sealed up by silting material from the river water conducted by the conduit. There are 2 diagrams, 1 map, 1 table, 2 photos and 1 German reference.

ASSOCIATION: "Ing. Jaroslav Černi" Institut za vodoprivredu (Institute for Water Resources "Ing. Jaroslav Černi"), Beograd

SUBMITTED: September 27, 1958.

Card 2/2

KUJUNDZIC, Branislav, inz.

Experimental determination of the deformation modulus of the rock
on the building site of the Split Hydroelectric-Power Plant. Saop
Inst vodopr Cerni no.14:45-46 '59.

KUJUNDZIC, Braislav, inz.

Experimental studies on the changes of elastic properties of the rocky ground as a function of depth. Saop Inst vodopr Cerni no. 18:1-8 '60.

KUJUNDZIC, V.

"Changing tubes in radios for communications."

p. 680 (Vojno-Tehnicki Glasnik) Vol. 5, no. 9, Sept. 1957
Belgrade, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

MAKOVOSOV, Mikhail Ionovich, doktor tekhn. nauk, prof.; KUK, G.A.,
zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn. nauk,
prof., retsenzent; SHLIPCHENKO, Z.S., kand. tekhn. nauk,
dots.; LIPATOV, N.N., kand. tekhn. nauk, red.; KARGANOV, V.G.,
inzh., red.; SOKOLOVA, G.F., tekhn. red.; VLADIMIROVA, L.A.,
tekhn. red.

[Hydraulics and hydraulic machinery] Gidravlika i gidravliche-
skie mashiny. Moskva, Mashgiz, 1962. 427 p. (MIRA 15:8)
(Hydraulics) (Hydraulic machinery)

1ST AND 2ND CROSS										3RD AND 4TH CROSS									
PROCESSING AND PROPERTIES INDEX																			
CA KUK, G.A.																			
Heat transfer for crosswise flow. G. A. Kuk. <i>Khi. Mashinostroyeniye</i> 9, No. 1, 3-5(1940).—Math. analysis of the heat transfer in a horizontal tube washed crosswise by a streamwise flow. B. S. Katskh																			
ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION																			
FROM SYNOPTIC										FROM INDEX									
1ST AND 2ND CROSS										3RD AND 4TH CROSS									

KUK, G.A., professor, doktor tekhnicheskikh nauk: KALMENS, R.I., redaktor;
KISINA, Ye.I., tekhnicheskii redaktor.

[Pasteurization of milk] Pasterizatsiia moloka. Moskva, Pishche-
promizdat, 1951. 239 p. [Microfilm] (MIRA 8:1)
(Milk--Pasteurization)

KUK, G. A.

Agriculture

Pasteurization of milk. Moskva, Pishchepromizdat, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

1. KUK, G.; SHUVALOV, V.
2. USSR (600)
4. Dairy Plants
7. Technical re-equipment of industry and problems of scientific research institutions, mol. prom., 13, No. 11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

KUK, G. A., ed.

Mechanical equipment for enterprises of the dairy industry Moskva, Pishche-
promizdat, 1953. 594 p. (55-20676)

SF247.K7

Kuk, G.A.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Kuk, G.A.	"Pasteurization of Milk"	Leningrad Institute of the Refrigeration and Dairy Industry

SO: W-30604, 7 July 1954

KUK, Gustav Antonevich, professor, doktor tekhnicheskikh nauk; LUK'YANOV, N.Ya., professor, doktor tekhnicheskikh nauk; SURKOV, V.D., professor, doktor tekhnicheskikh nauk; IVANOVA, N.M., redaktor; CHEBYsheva, Ya.A., tekhnicheskiy redaktor.

[Processes and equipment in the dairy industry] Pretsessy i apparaty
molechnoi promyshlennosti. Moskva, Pishchepremizdat. Vol.1. 1955.47lp.
(Dairying) (MLRA 9:4)

KUK, G.A., doktor tekhnicheskikh nauk.

Friction drive for centrifuges. Trudy LTIKHP 7:48-55 '55.

(MIRA 10:9)

1. Kafedra protsessov i apparatov.

(Separators (Machines))

KUK, G.A., professor, doktor tekhn.nauk

Operation of a separator neck spring. Trudy LTIKHP 13:46-51
'57. (MIRA 13:6)

1. Kafedra protsessov i apparatov Leningradskogo tekhnologi-
cheskogo instituta kholodil'noy promyshlennosti.
(Separators(Machines))

KUK, G.A.

124-58-6-6729

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 61 (USSR)

AUTHOR: Kuk, G.A.

TITLE: The Work of Friction in Laminar Flow (Rabota treniya v laminarnom potoke)

PERIODICAL: Tr. Leningr. tekhnol. in-t kholodil'n. prom-sti, 1957, Vol 13, pp 52-53

ABSTRACT: An expression is derived for the work of the friction forces in a laminar flow in a circular pipe, and the temperature rise of the liquid due to the transformation of this work into heat is determined.

1. Fluid flow--Heat transfer
2. Friction--Thermal effects

G.S. Glushko

Card 1/1

KUK, G.A.; GRISHCHENKO, A.D.

Criterion equations describing the whipping of cream. Izv.vys.
ucheb.zav.; pishch.tekh. no.6:116-122 '58. (MIRA 12:5)

1. Leningradskiy tekhnologicheskii inatitut kholodil'noy promysh-
lennosti, Kafedra tekhnologii moloka i molochnykh produktov.
(Cream)

LIPATOV, Nikolay Nikitovich, kand. tekhn. nauk; KUK, G.A., prof.,
retsenzent; LUK'YANOV, N.Ya., kand. tekhn. nauk, retsenzent;
IVANOVA, N.M., red.; SOKOLOVA, I.A., tekhn. red.

[Separation of milk] Separirovanie moloka. Moskva, Pishche-
promizdat, 1960. 254 p. (MIRA 15:1)
(Milk)

KUK, Gustav Antonovich prof., doktor tekhn.nauk; IVANOVA, N.M., red.;
KISINA, Ye.I., tekhn.red.

[Processes and apparatus of the dairy industry] Protsessy i
apparaty molochnoi promyshlennosti. Moskva, Pishchepromizdat.
Vol.2. [Mechanical processes] Mekhanicheskie protsessy. 1960.
285 p. (MIRA 13:12)

(Dairy plants)

LIPATOV, Nikolay Nikitovich, kand. tekhn. nauk, dots.; ~~KUK, G.A.~~,
zasl. deyatel' nauki i tekhniki, prof., retsenzent; BARANOVSKIY,
N.V., kand. tekhn. nauk, retsenzent; IVANOVA, N.M., red.; KISINA,
Ye.I., tekhn. red.

[Graphic methods of analyzing the degree of dispersion of milk
fat] Graficheskie metody kharakteristiki dispersnosti zhira moloka.
Moskva, Pishchepromizdat, 1962. 39 p. (MIRA 16:3)
(Butterfat—Analysis and examination)

KUKA, A.

KUKA, A., Veterinary advice about piroplasmosis. p. 17.

Vol. 9, no. 8, August 1955 Tirane, Albania PER BUJQESINE SOCIALISTE

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 5, No. 10, Oct. 1956

KUKA, Ali, Cand of Vet Sci -- (diss) " Study of the Properties of Brucellosis Bacillus Isolated in Various Epizootic Conditions," Moscow, 1959, 15 pp (All-Union Institute of Experimental Veterinary Medicine) (KL, 2-60, 116)

KUKA, Ali., aspirant

Identification of the strain Br. abortus 19 by sensitivity to
thionine and penicillin. Veterinariia 36 no.11:84-85 N '59
(MIRA 13:3)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.
(Brucella) (Veterinary bacteriology)
(Penicillin) (Thionine)

TALYZIN, A.M.; GOL'DIN, L.L.; TROKHACHEV, G.V.; RADKEVICH, I.A.;
MOZALEVSKIY, I.A.; SOKOLOVSKIY, V.V.; KUKABADZE, G.M.;
BELOZEROVA, L.A.; BORISOV, V.S.; BYSHEVA, G.K.; VESOLOV, M.D.;
GORYACHEV, Yu.M.

Study and corrective measurements of the magnetic characteristics of S-elements of a proton synchrotron with low fields.
Prib. i tekhn. eksp. 7 no.4:184-192 J1-Ag '62.

(MIRA 16:4)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR i Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.

(Magnetic measurements) (Synchrotron)

KUKABAYEV, B.

Underground waters of Jurassic deposits in the southwestern
part of the Ural-Emba interfluve. Vest. AN Kazakh. SSR 19
no.12:41-49 D '63. (MIRA 17:12)

KUKABAYEV, B.; SYDYKOV, Zh.

Hydrochemistry of underground waters of Permian-Triassic sediments
in the southwestern part of the Ural - Emba interfluvium. Izv. AN
Kazakh SSR. Ser. geol. no. 4: 58-67 '62. (MIRA 15:7)
(Ural Valley--Water, Underground--Composition)
(Emba Valley--Water, Underground--Composition)

KUKABAYEV, B.I.

Formation of the chemical composition of highly mineralized
brines in the southern part of the Ural-Emba region. Trudy
Inst. geol. nauk AN Kazakh.SSR no.14:162-170 '65.

(MIRA 19:1)

KUKACKA, F. (Ceske Budejovice)

Establishment of the surveying plan of opening, preparation,
and mining in nonore quarries. Stavivo 41 no.8:289-290
Ag'63

KUKACKA, F.

(Ceske Budejovice)

Surveying operations at the nonmetal quarries. Stavivo
41 no.5:177-179 My '63

KUKACKA, Frantisek

Geodetic operations in nonore quarries. Goed kart obzor 9
no.8:223-225 Ag '63.

KUKACKA, F. (České Budějovice)

Overburden operations and recultivation of lands damaged by
mining of nonore raw materials. Stavivo 43 no.2:52-53 '65.

1. Submitted June 1964.

KUKACHEV, V. A.

PA 59/49T34

USSR/Medicine - Hypertonia
Medicine - Blood, Oxygen

May 49

"Use of Oxygen for Treating Hypertonia," V. A.
Kukachev, Kinel'-Cherkass Dispensary for Ambulatory
Cases, Kuybyshev Oblast, 3 pp

"Klin Med" Vol XXVII, No 5

Shows that subcutaneous injection of oxygen is an
effective treatment for hypertonia. Therapeutic
effect is observed even in patients who fail to
respond to other methods of treatment. General
condition improves, headaches are relieved, patient's
ability to work is restored, and in all cases
hypotension is apparent.

59/49T34

KUKACKA, Frantisek

Mine surveying operations in designing the stoping grounds and establishing the plan of mine openings, preparatory work and mining. Rudy 10 no.12:410-413 D '62.

1. JSH, Veseli nad Luznici.

KIKACKA, F. (Česko Budojovice)

Surveying and mapping documentation of nonore quarries. Staviva
43 no.1:27-28 '65.

KUKACKA, M.

The seldom-used observation point of Liptov, Choc Peak. p. 4. KRASY
SLOVENSKA. Bratislava Vol. 31, no. 1, Jan. 1954.

SOURCE: East European Accessions List. (EEAL) Library of Congress.
Vol. 5, No. 8, August 1956.

KUKACKA, M.

Cemice Forest. p. 268. KRASY SLOVENSKY. Bratislava. Vol. 31, no. 9, Sept. 1954.

SOURCE: East European Accessions List. (EEAL) Library of Congress. Vol. 5, No. 8, August 1956.

KUKACKA, M.

Two avalanches that destroyed the cabin below the Vahy Saddle.
p. 338

KRASY SLOVENSKA no. 9, Sept. 1955

CZECHOSLOVAKIA

Source: EAST EUROPEAN ACCESSIONS LISTS Vol. 5, no. 7, July 1956

KUKACKA, M.

GEOGRAPHY & GEOLOGY

Periodicals: KRASY SLOVENSKA. Vol. 34, No. 1, 1957

KUKACKA, M. The express train stop of Liptovsky Hradok. p. 22.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959,
Unclass.

KUKACKA, M.

"The Snow Light."

p. 68 (Krasý Slovenska, Vol. 34, No. 2, Feb, 1957, Bratislava, Czechoslovakia)

GEOGRAPHY & GEOLOGY Periodicals

Monthly Index of East European Accessions (EEAI) I.C, Vol. 7, No. 11,
Nov. 1958

KUKACKA, M.

"Climbing the Ohniste mountain in the rain."

p. 143 (Krasý Slovenska, Vol. 34, No. 4, Apr. 1957, Bratislava, Czechoslovakia)

GEOGRAPHY & GEOLOGY Periodicals

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 11, Nov. 1958

KUKACKA, M.

GEOGRAPHY & GEOLOGY

Periodicals: KRASY SLOVENSKA. Vol. 35, No. 12, Dec. 1958.

KUKACKA, M. The silent glow. p. 474.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959.
Unclass.

CZECHOSLOVAKIA

KUKACKA, R., MA.

Regional Hygienic-Epidemiological Station (Krajaska
hygienicko-epidemiologicka stanice), Ostravaa

Prague, Prakticky lekar, No 19, 1963, pp 747-749

"The Training of X-Ray Doctors -- a Successful Way Toward
the Protection of the Examiners and Patients."

KUKACKA, Richard, Ph Mr

Effect of excess alkali in polarographic determination of aromatic hydrocarbons. Pracovni lek. 6 no.3:171-173 Js '54.

1. KHES, Ostrava, odd. hygieny prace a nemoci z povolani, ved. oddeleni MUDr Petr Pachner.

(POLAROGRAPHY,

*of hydrocarbons, eff. of excess alkali)

(DYES, determination,

*hydrocarbon dyes, polarography, eff. of excess alkali)

(BENZENE, derivatives,

*determ., polarography, eff. of excess alkali)

KUKACKA, Richard PhMr

Notes on determination of formaldehyde determination with fuch-
sinsulphite. Pracovni lek. 7 no.4:236-238 Jy '55.

1. KHES, Ostrava--odd.hyg prace, prednosta odd. Dr. Petr Pachner
(FORMALDEHYDE, determination
fuchsin sulfite)
(ROSANILIN DYES
fuchsin sulfite in determ. of formaldehyde)

KUKACKA, Richard, Ph Mr.; PACHNER, Petr, MUDr.

Dust control in hard coal mines; suggestion for a method to be used
by industrial hygiene stations. Pracovni lek. 9 no.5:425-429 Nov 57.

(MINES AND MINING,

dust control in hard coal mines (Cz))

(DUST, control in hard coal mines (Cz))

KUKACKA, Richard, PhMr.; PACHNER, MUDr., (Technická spolupráce); KRIZKOVA, Liba;
SLAVICEK, Zdenek; HOSTALEK, Josef

Dust control in coal mines. II. Pracovní lek. 10 no.1:70-71 Mar 58.

1. Krajská hygienickoepidemiologická stanice v Ostravě, ředitel MUDr
Jaroslav Verner, odbor hygieny práce, přednosta MUDr P. Pacher. .
Prednesenon na V. celostátním sjezdu Pracovního lékařství v Gottwaldově.
R. K. KHSS— odbor hyg. práce, Záluzanského ulice— Ostrava VII.

(DUST,
control in coal mines in Czech. (Cs))
(MINING,
same)

Nuclear Medicine

CZECHOSLOVAKIA

UDC 615.849.7-082.4

WIEDERMANN, M.; HUSAK, V.; KUKACKA, R.; KUBA, J.; Dept. of Radioisotopes, Faculty Hospital and Med. Faculty, Palacky University (Radioizotopove Oddeleni Fakultni Nemocnice a Lek. Fak. PU), Olomouc, Head (Vedouci) Dr M. WIEDERMANN; Krajska Station of Hygiene and Epidemiology (Hygienicko Epidemiologicka Stanice) Ostrava, Director (Reditel) Dr L. BAJGAR.

"Calculation of the Necessary Period of Hospitalization During Therapeutic and Diagnostic Administration of Radioactive Isotopes."

Prague, Casopis Lekaru Ceskych, Vol 105, No 41, 12 Oct 66, pp 1107 - 1110

Abstract [Authors' English summary modified]: Minimum periods of hospitalization after the administration of radioactive isotopes are discussed. The criterion should be the excreted activity and the intensity of radiation emitted by the patient. 1 Table, 4 Western, 4 Czech references. (Manuscript received Oct 65).
1/1

Czechoslovakia / Analytical Chemistry.
Analysis of Inorganic Substances.

E-2

Abs Jour: Ref. Zhur - Khimiya No. 2, 1958, 4326

waiting period at room temperature with the S 50 light filter. The resulting red-violet coloration is stable for 20 minutes. To plot a calibration curve, standard solutions are used. They contain 2% / ml. of HCN (when PPR) or 8% / ml. of HCN (when using PPR). The error of the determination is 5%. For the preparation of pyridine and phloroglucinol solutions, 1 g. of the compound is dissolved in 70 ml. of C_2H_5OH containing 1% of low boiling benzene, and the resulting solutions are made up to 100 ml. with water. In the determination of cyanide aerosols, 20-50 liters of the air to be analyzed is passed through 5 ml. of 0.1N NaOH at the rate of 1.5 l./minute. Instead of phloroglucinol, resorcinol or orcinol can be

Card 3/4

Analysis of Inorganic Substances.

KUKACKOVA, V.; NAUS, A.

Colorimetric determination of pyrocatechol. p. 566.

DESKOSLOVENSKA HYGIENA. Praha, Czechoslovakia. Vol. 4, no. 9, Oct. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

BENES, Václav; BARDODEJ, Zdenek; BARDODEJOVA, Eva; KUKACKOVA, Vera;
VITOVA, Alena

Physical exertion and the phenol test. Cesk. hyg. 7 no.1:46-48 F
'62.

1. Katedra hygieny prace lekarske fakulty hygienicke Karlovy university,
Praha.

(BENZENE metab.) (PHENOLS urine) (INDUSTRIAL MEDICINE)

BARDODEJ, Zdenek; BARDODEJOVA, Eva; BENES, Vaclav; KUKACKOVA, Vera;
VITOVA, Alena

Diuresis and the phenol test. Cesk. hyg. 7 no.1:49-52 F '62.

1. Katedra hygieny prace lekarske fakulty hygienicke Karlovy university,
Praha.

(PHENOLS urino) (BENZENES metab.) (INDUSTRIAL MEDICINE)

BARDODEJ, Z.; BARDODEJOVA, E.; BARLA, J.; KUKACKOVA, V.; VITOVA, A.

Estimation of diphenyl and diphenyl oxide in the atmosphere. Cesk.
hyg. 7 no.9:543-547 0 '62.

1. Katedra hygieny prace lekarske fakulty hygienicke University Karlovy,
Praha Okresni hygienicko-epidemiologicka stanice, Presov.
(BIPHENYL COMPOUNDS) (AIR POLLUTION)

KUKAL, Vaclav, inz.

The Month of Friendship. Automatizace 4 no.11:317 N '61.

1. Namestek predsedy Statniho vyboru pro rozvoj techniky.

(Communism)

KUKAL, Vaclav, inz.

The tasks of automation from the viewpoint of national economy development. Tech praca 14 no.3:163-164 Mr '62.

1. Namestek predsedy Statniho vyboru pro rozvoj techniky, Praha.

KOZESNIK, Jaroslav, akademik; BLASKOVIC, Dionyz, akademik; KOJMAN, Arnost, akademik; MACURA, Jiri, dr.; VANA, Josef; GOSIOROVSKY, Milos; BCI, Jaroslav, akademik; PROCHAZKA, Jaroslav, prof., dr.; HAMPEJS, Zdenek, dr.; BRAHEC, Frantisek, prof., ins., dr.; BORN, Frantisek, akademik; NOVAK, Josef, akademik; NEUMANN, Jaromir, doc., dr.; BAZANT, Vladimir, ins., dr.; KOUNOVSKY, Bohumil, dr.; SZANTO, Jan, dr.; ROZSIVAL, Miroslav, dr.; KASPAR, Jan, dr.; BARKA, Ladislav, prof., ins.; STRNAD, Julius; WICHTERLE, Otto, akademik; ZATOPEK, Alois; JAVORNICKY, Jan, ins.; VAVRA, Jaroslav, dr.; BLATTNY, Ctibor, akademik; ONDRIS, Karol, dr.; KUKAL, Vaclav, ins.

The 22d Congress of the Communist Party of the Soviet Union and the tasks of Czechoslovak science; discussion. Vestnik CSAV 71 no.1:3-59 162.

1. Hlavní vedecký sekretar Československé akademie ved (for Kozesnik).
2. Člen korespondent Československé akademie ved (for Vana, Gosiorovsky, Kaspar, Strnad, Zatopek).
3. Rektor Karlovy university (for Prochaska).
4. Rektor Českého vysokého učení technického (for Brahec).
5. Namestek presidenta Československé akademie ved (for Born)

KUKAL, Zdenek

Ordovician sedimentary structures of the Barrandian area. Rozpravy
mat CSAV 73 no.2:1-93 '63.

1. Ustredni ustav geologicky, Praha.

KUKAL, Z.

New Soviet works on the texture of sedimentary rocks; book reviews. p. 286
(Vestnik, Praha. Vol 31, no. 6, 1956)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

KUKAL Z.

Czechoslovakia/Physical Chemistry, Thermodynamics, Thermochemistry B-8
Equilibriums, Phys-Chem. Anal. Phase-Transitions.

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22305.

Author : Z. Kukal

Inst : Not given

Title : Differential Thermal Analysis of Some Barrandian Lime and
Dolomite Rocks.

Orig Pub : Casop. Narodn. musea. Odd. prirodoved. 1956, 125, No 1,
32-32 (Czech).

Abstract : 19 samples of lime and dolomite rocks of different sites were
studied by method of differential thermal analysis. The re-
sults of chemical analysis for 9 samples are given, which sup-
plement data supplied by the thermal analysis. The composi-
tion of Barrandian lime rocks is characterized by the presence
of dolomite (endothermic effect at 700-900°), of organic com-
pounds (exothermic effect at 200-400°), of quartz (endothermic
effect at 575°) and of adsorbed water (endothermic effect at
100°).

Card 1/1

-106-

KUKAL, Z.

The time of sedimentation in recent and fossil sediments. p. 155.
(Časopis Pro Mineralogii A Geologii, Vol. 2, no. 2, 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

KUKAL, Z.

"Petrographic investigation of the Letna beds of the Barrandian Ordovician (Llandeilo)"
Sbornik. Oddil geologicky. Praha, Czechoslovakia. Vol. 24, no. 1, 1957 (published 1958)

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

KUKAL, Z.

"Certain problems concerning the classification of sandstones."

p. 309 (Central Geologic Institute, Czechoslovak Academy of Sciences) Vol. 32, no. 5, 1957

SO: Monthly Index of East European Accession (EEAI) LC, Vol, no, 5, May 1958

KUKAL, Z

GEOGRAPHY & GEOLOGY:

Periodicals: CASOPIS PRO MINERALOGII A GEOLOGII. Vol. 3, no. 1, 1958

KUKAL, Z. Watts and their significance for studies of recent and fossil sediments. p. 73.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

KUKAL, Z.

GEOGRAPHY & GEOLOGY

PERIODICAL: VESTNIK. Vol. 33, no. 3, 1958

KUKAL, Z. The optical orientation of dolomite crystals in the Barrandian sedimentary dolomite rocks, p. 184.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2, Feb 59, Unclass.

KUKAL, Z.

"Classification of the textures of sedimentary limestone and dolomite."

VESTNIK, ustredni ustav geologicky, Prague, Czechoslovakia, Vol. 33, No. 4, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncl.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Central Geological Institute (Ustredni ustav geologicky), Prague.

Source: Prague, Vestnik Ustredniho Ustavu Geologickeho, Vol XXXVI, No 5,
June 1961, pp 347-350.

Data: "Composition and Origin of the Sediments of the Ordovician Kocov
Beds in the Barrandian Area."

GPO 981643

KUCAL, Zdenek

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: /not given/

Source: Prace, Věstník Ústředního ústavu geologického, Vol XXXI, No 6, 61,
pp417-424.

Data: "Basic Terminology of sedimentary rocks."

Authors: PELÁNEK, Jan

ELIAS, Mojmir

KUCAL, Zdenek

SKOCEK, Vladimir

GPO 981643

- 14
- Prague, Československá Akademie věd, Vol. VII, No. 3, 1962.
- Copyright: Publishing House of the Czechoslovak Academy of Sciences (Akademický nakladatelství Československé akademie věd), 1962.
1. "Estimating the Volume of the Individual Minerals in Barroisite from the Volume of the Rock," pp 121-124.
 2. "Remarks on the Find of Aluminite in the Tertiary-Quaternary of the Moravian-Silesian Beskydy," Helena ELIŠOVÁ, pp 130-131.
 3. "Mineralogy of Cadmium in a No. 8a Deposit in Earth West," J. ELIŠOVÁ, pp 132-133.
 4. "New Find of Phosphoric Densities," pp 134-135.
 5. "Remarks on the Aluminite Formation of the Northern Part of the Tertiary-Quaternary of the Moravian-Silesian Beskydy," pp 136-137.
 6. "Local Spectrophilic Microanalysis of Mineralogical Data," pp 138-139.
 7. "Remarks on the Border Between the Tertiary and Quaternary of the Moravian-Silesian Beskydy," pp 140-141.
 8. "Remarks on the Tertiary-Quaternary of the Moravian-Silesian Beskydy," pp 142-143.
 9. "Geology and Sedimentology," pp 144-145.
 10. "Bacteria in the Recent Sea Sediments," pp 146-147.
 11. "Adjustment of Comparative Spectrum Tables for Another Type of Spectrophilic Units," pp 148-149.
 12. "Notes on the Yellow Polyadic Oxide from Krupka in Bohemia," pp 150-151.

KUKAL, Z

CZECHOSLOVAKIA

KUKAL, Z.

Prague, Vestnik Ustredniho Ustavu Geologickeho,
No 1, 1963, pp 43-46

"Chemical and Mineralogical Development of the
Carbonate Sediments in the Ordovician of the
Barrandian Area."

CZECHOSLOVAKIA

KUKAL, Z.

Prague, Casopis pro mineralogii a geologii, No 3, 1963,
pp 246- 249

"Chemical Composition and Evolution of the Pelitic Sediments of
Central Bohemian Ordovician."

CZECHOSLOVAKIA

KUKAL, Z.

Central Geological Institute (Ustredni ustav geologicky),
Prague

Prague, Casopis pro mineralogii a geologii, No 4, 1963,
pp 379-380

"Organic Matter of Algoncic Loam Minerals."

KUKAL, Zdenek

Chemical composition and evolution of clay rocks in the central
Bohemian Ordovician. Cas min geol 8 no.3:246-249 JI '63.

KUKAL, Zdenek

New information on the geology of oceans. Vest Ust geol 38 no.3:
145-151 My '63.

KUKAL, Zdenek, promovany geolog, kandidat geologicko-mineralogickych ved.

Methods of petrographic survey of sedimentary limestones
and dolomites. Geol pruzkum 5 no.12:358-361 D '63.

1. Ustredni ustav geologicky, Praha.

KUKAL, Zdenek

Foreign terminology of sedimentary deposits. Cas min geol
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KUKAL, Zdenek

Relation between the Bohutin and Sadec beds of the Barrandian Cambrian.
Vest Ust geol 39 no.4:275-276 '64.

1. Central Geological Institute, Prague.

KUKAL, Zdenek

"Possibility of determining marine and nonmarine sediments. International Symposium. Progress in the geology of Rhineland and Westphalia." Reviewed by Zdenek Kukal. Cas miv geol 9 no.3:307-308 '64.

ACCESSION NR: AP4039277

S/0148/64/000/005/0135/0139

AUTHORS: Anitev, I.S.; Kukalenko, B.D.

TITLE: The effect of heat treatment on the corrosion resistance of "VTZ-1" type Ti alloy

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1964, 135-139

TOPIC TAGS: heat treatment, corrosion resistance, Ti alloy, mechanical property, hardening

ABSTRACT: The authors studied the effects of heat treatment on the mechanical properties of type $\alpha+\beta$ -Ti-alloy and its corrosion resistance. The specimens were widely used "VTZ-1" Ti-alloy specimens which contained 6% Al, 3% Mo and 3% Cr. They were prepared by 800C annealing of 16 mm diam. rods. The heat treatment temperatures were 850, 950, 1050 and 1100C, with a holding period of 30 minutes followed by normalizing and water quenching. Cylinders with a 12-15 mm diam. and a height of 20-22 mm were cut out. A 25% solution of sulfuric acid was used for corrosion tests at 20-24C and 12-15C. The specimens remained in the medium from 260 to 1000 hrs. Ultimate

Card 1/2

ACCESSION NR: AP4039277

strength and hardness increased with tempering temperatures up to 500C while plasticity was equal to zero in all tests. The rate of corrosion dropped with raised heat treatment temperatures and at 1100C corrosion attack was negligible. Thermal oxidation enhanced corrosion resistance substantially. Heat treatment affected the structure and strength of the natural passivating oxide film formed by special air heating at temperatures above 600C as well as the strength of the material. Although tempering at 300-400C had negligible effect on the structure after hardening, the rate of corrosion of tempered specimens was lower than that of hardened specimens because of the relief of cooling stresses. In high-hardness alloys (normalizing and quenching from 1050C followed by 500C tempering) the rate of corrosion was rather high. Orig. art. has: 4 figures

ASSOCIATION: Leningradskiy tekhnologicheskii institut (Leningrad Institute of Technology)

SUBMITTED: 03May63
SUB CODE: .MM

NR REF SOV: 002

ENCL: 00
OTHER: 000

Card 2/2

30197

S/080/61/034/011/010/020

D243/D301

18 8300

AUTHORS: Anitov, I.S., and Kukalenko, B.D.

TITLE: The effect of thermal processing on the corrosion resistance of the titanium alloy BT3-1 (VTZ-1) in sulphuric acid solutions

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 11, 1961, 2466 - 2472

TEXT: The authors state that the corrosion of thermally processed alloys has not been previously studied. They set out to examine the effect of thermal processing of an $\alpha + \beta$ titanium alloy on corrosion resistance in H_2SO_4 solutions and to detect any link between the alloy's structure and corrosion properties. To this end samples of VTZ-1 titanium (aluminum 6 %, molybdenum 8 %, chromium 3 %) were subjected to various thermal processing regimes. As corroding medium they used 25 % and 75 % H_2SO_4 , in whose concentrations the corrosion rate of titanium is the highest, according to V. V. Andreyeva, and V.N. Kazarin (Ref. 1: DAN SSSR, 121, 5, 1958).
Card 1/3

30197

S/080/61/034/011/010/020
D243/D301

The effect of thermal processing ...

The majority of trials were carried out at 22-24°C with a few at 12-14°C. Three or four specimens were used for a single trial, using 300-400 ml. solution per sample. The samples remained in 25 % H_2SO_4 for 260 hours and in 72 % H_2SO_4 for 48 hours. Corrosion was estimated from external appearance, duration of passivity and loss of weight ($gm/1\ mm^2/hr$ calculated over whole test period with correction for passivity period). Maximum scatter of data for weight loss, under equivalent conditions, was approximately 10 %. The structure of the samples was studied with optical (x500) and electron (x10,000) microscopes. It was found that thermal processing had a marked effect on the corrosion resistance of VTZ-1 titanium alloy in 25 % H_2SO_4 as shown by the change in the period of passivity and corrosion rate of the alloy. This effect was linked with structural differences e.g. the degree of heterogeneity, nature of the dispersion phases and the state of strain of the alloy. The protective properties of the natural oxide film depended mainly on the heterogeneity of the structure, the period of passivity diminishing with coarser structure. Single phase or coarsely heterogene-

Card 2/3

PLYUSHKIN, S.A., kand.tekhn.nauk; KUKALENKO, B.D., inzh.; ROMANKOV, P.G., doktor
tekhn.nauk

Separator for suspensions difficult to filter. Khim.mashinostr. n .2:
1-2 Mr-Ap '63. (MIRA 16:4)

(Separators (Machines))

KUKALENKO, S. S. Cand Chem Sci -- (diss) "Synthesis and study of certain
~~derivatives~~ derivatives of polycyclic hydrocarbons obtained by the diene synthesis."

Mos, 1957. 23 pp, 3 sheets of tables (Min of Chem Industry. Sci Inst for
Fertilizers and ~~Insectofungicides~~ Insectofungicides in Professor Ya. V.
Samoylov), 110 copies (KL, 3-58, 95)

KUKALENKO, S. S.

AUTHORS: Kukalenko, S. S., Mel'nikov, N. N.

79-1-32/63

TITLE: **Organic Insecti- and Fungicides** (Iz oblasti organicheskikh insektofungitsidov). XXVIII. The Synthesis of Some Ethers of Bicyclo-(2,2,1)-Heptenyl-5-Carbinol-2 (XXVIII). Sintez nekotorykh efirov bitsiklo-(2,2,1)-geptenil-5-karbinola-2).

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 1, pp. 154-157 (USSR).

ABSTRACT: Much attention was recently paid to different polycyclic compounds obtained by the way of diene-synthesis from cyclopentadiene and hexachlorocyclopentadiene, because extremely active insecticides were found among them (reference 1-6). For this reason syntheses of similar polycyclic compounds were performed, in order to determine the dependence of this activity on their structure. Above all the authors synthesized various ethers of bicyclo-(2,2,1)-heptenyl-5-carbinol-2 by conversion of cyclopentadiene with allyl esters of different acids. These syntheses were of importance, as the condensation of cyclopentadiene was hitherto known in publications only with allyl alcohol, chloro- and bromoallyl, some vinyl ether, acrolein,

Card 1/3

2

Organic Insecti- and Fungicides

XXVIII The Synthesis

79-1-32/63

of Some Ethers of Bicyclo-(2,2,1)-Heptenyl-5-Carbinol-2.

acetylene and a few other compounds. The reaction of cyclopentadiene with the allyl esters of various acids takes place at an elevated temperature in an autoclave or in sealed tubes at some pressure. The conversion can be represented according to the given scheme. The synthesized compounds and their properties are described in the table. As in the published syntheses of cyclopentadiene with allyl alcohol, bromo- and chloro-allyl only the boiling points were given, the authors also described the syntheses of these compounds, as well as the synthesis of 2,3-dichlorobicyclo-(2,2,1)-heptene-5 from trans-dichloroethylene and cyclopentadiene. For the purpose of a synthesis of the different arylbicyclo-(2,2,1)-heptadienes the conversion of cyclopentadiene with phenylchlorophenyl-, bromophenyl- and tolylacetalynes was investigated, but it was not possible to isolate the monomeric reaction products. Only solid polymers with high molecular weights were obtained on that occasion. There are 1 table and 13 references, 10 of which are Slavic.

ASSOCIATION:
Card 2/3

Scientific Institute for Fertilizers, Insecticides and Fungicides (Nauchnyy institut po udobreniyam i insektofungitsidam).

KUKALENKO, S. S.

AUTHORS: Kukalenko, S. S., Mol'nikov, N. A.

79-1-33/63

TITLE: **Organic Insecti- and Fungicides** (Iz oblasti organicheskikh insektofungitsidov). XXIX. On the Interaction of Hexachlorocyclopentadiene With Some Unsaturated Compounds (XXIX. O vzaimodeystvii geksahtortsiklopentadiyena s nekotorymi nepredel'nymi soyedineniyami).

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 1, pp. 157-161 (USSR).

ABSTRACT: In order to find new active insecticides, the authors investigated the reaction products of hexachlorocyclopentadiene with various unsaturated compounds, first of all some ethers of allyl alcohol and bicyclo-(2,2,1)-heptenyl-5-carbinol-2. Moreover the reaction of hexachlorocyclopentadiene with ethyl- and isobutylvinyl-ethers was investigated. The conversion of the allyl esters of different fatty acids and the allyl ester of dithiophosphoric acid with hexachlorocyclopentadiene takes place comparatively easily on heating of equimolecular amounts of the initial product at 100-125° C within 10-12 hours, where the corresponding derivatives are obtained with yields of 50-60%. These conversions can be represented by scheme (I).

Card 1/3

Organic Insecti- and Fungicides

XXIX. On the Interaction 79-1-33/63
of Hexachlorocyclopentadiene With Some Unsaturated Compounds.

The synthesized compounds and their properties are given in the table. Some of these compounds are already known from publications, but they were either synthesized according to other methods or their constants were not given. The condensation of hexachlorocyclopentadiene with the ethers of bicyclo-(2,2,1)-heptenyl-5-carbinol-2 takes place considerably slower so that a heating of the reaction mixture at 125-130° C and not less than 15 hours are needed in order to obtain a 50% yield of the derivative. This reaction takes place according to scheme (II). Of all investigated compounds the vinyl ethers react most easily with hexachlorocyclopentadiene and they are bound to the latter already at 80-90° C, but its reaction with the bicyclic compounds even at elevated temperatures takes place considerably slower. As far as the insecticide activity is concerned they have a much smaller effectiveness than this is the case with aldrin and even chlorindane. There are 1 table, and 9 references, 5 of which are Slavic.

ASSOCIATION: Scientific Institute for Fertilizers and Insecticides (Nauchnyy institut po udobreniyam i insektofungitsidam).

Card 2/3

KUKALENKO, S. S.

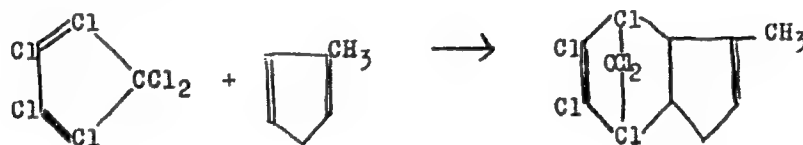
AUTHORS: Kukalenko, S. S., Mel'nikov, N. N.,
Naryshkina, T. I., Shuykin, N. I.

79-2-43/64

TITLE: Organic Insecticides and Fungicides (Iz oblasti
organicheskikh insektofungitsidov) XXXIII. Synthesis of Some
Derivatives of 4,7-Endomethylenetetrahydroindan (XXXIII. Sin-
tez nekotorykh proizvodnykh 4,7-endometilentetragidroindana).

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 480-483 (USSR)

ABSTRACT: In order to investigate the insecticide-properties of chlor-
dane and heptachlorine homologues, an adduct was obtained from
hexachlorocyclopentadiene and 3-methylcyclopentadiene-2,4 by
heating at 85-105°C. It is assumed that the reaction takes pla-
ce as follows:



Card 1/2

The product, a yellow viscous liquid, was chlorinated or bromiz-
ed resp. and the compounds obtained were tested for their in-

79-2-43/64

Organic Insecticides and Fungicides. XXXIII. Synthesis
of Some Derivatives of 4,7-Endomethylenetetrahydroindan.

secticide-properties. It was found that all of them have a lower insecticide effect than "chlordan". These compounds have hitherto not been described in technical literature. The working methods and the specific data of the compounds are given. There are 5 references, 2 of which are Slavic.

ASSOCIATION: Scientific Institute for Fertilizers, Insecticides and Fungicides and Institute for Organic Chemistry AS USSR (Nauchnyy institut po udobreniyam i insektofungitsidam i Institut organicheskoy khimii Akademii nauk SSSR).

SUBMITTED: January 16, 1957

AVAILABLE: Library of Congress

Card 2/2

MEL'NIKOV, N.N.; NUTOVICH, P.B.; KUKALENKO, S.S.

Investigation of new herbicides and effective forms of the application of 2,4-D and 2, 4, 5-T. [Trudy] NIUIF no.164:21-22 '59.
(MIRA 15:5)

(Herbicides)

MEL'NIKOV, N.N.; KUKALENKO, S.S.; VARSHAVSKIY, S.L.; KOFMAN, L.P.;
BELOV, M.D.

Prospective herbicides. Khim. prom. no.10:39-40 0 '61.
(MIRA 15:2)
(Herbicides)

MEL'NIKOV, N.N.; VOLODKOVICH, S.D.; VOL'FSON, L.G.; KUKALENKO, S.S.

Diene synthesis reactions with polyhalocyclopentadienes. Reakt.-
org.socd 11:7-230 '62. (MIRA 15:6)
(Chemistry, Organic--Synthesis) (Cyclopentadiene)

SOV/137-59-2-4765

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 2, p 343 (USSR)

AUTHORS: Zelyanskaya, A. I., Bausova, N. V., Kukalo, L. Ya.

TITLE: Study of Polarographic Properties of Gallium and Indium (Izucheniye polyarograficheskikh svoystv galliya i indiya)

PERIODICAL: Tr. In-ta metallurgii. Ural'skiy fil. AN SSSR, 1958, Nr 2, pp 263-274

ABSTRACT: Investigations were carried out for establishing the optimum conditions for polarographic determination of Ga and In. It was established that in acid salicylate solutions (0.1 M Na salicylate and 0.1 M NaCl with a pH of 2.5 - 3.8) Ga forms a well defined wave with $E_{1/2} = -0.99$ v (in saturated standard electrolyte); introduction of gelatin has a negative effect. The electrode reaction corresponds to a three-electron reduction and proceeds irreversibly. With an increase of the salicylate content in the solution $E_{1/2}$ shifts in the negative sense. The polarographic determination is not impeded by Al, As⁵⁺, Mn⁷⁺, and small amounts of Cu, Bi, Sb, Fe, In, Cd, Pb, and Tl. Zn, Ni, Co, Mo, and Sn should be first removed. In is read polarographically against the background of 3N HCl in the presence of 0.01% solution

Card 1/2

SOV/137-59-2-4765

Study of Polarographic Properties of Gallium and Indium

of gelatin; $E_{1/2} = -0.78$ v. An increase in gelatin concentration decreases sharply the intensity of the diffusion current.

N. G.

Card 2/2

ZELYANSKAYA, A.I.; KUKALO, L.Ye.

Polarographic reduction of gallium in a pyrocatechol solution.
Zhur.anal.khim. 18 no.6:726-728 Je '63. (MIRA 16:9)

1. Institute of Metallurgy, Ural Branch of the Academy of Sciences
of the U.S.S.R., Sverdlovsk.
(Gallium compounds) (Polarography) (Pyrocatechol)

KUKALOVA, D.

Use of aerial photographs in determining and evaluating natural
resources in the underdeveloped countries. Sbor zem 69 no.1:71
'64.

KUKALOVA, J.

"Remarks on the family, Blattinopsidae Bolton, 1925 (Insecta-Protorthoptera)."
p.129 (Vestnik, Vol. 33, no. 2, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 8, August 1958

KUKALOVA, J.

"Breyeria barborae n. sp. (Insecta, Plesiodictyoptera) of the Upper Silesian coal basin (Wesphalia) In English."

VESTNIK, Praha, Czechoslovakia, Vol. 34, no. 4, 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59
Unclass

KUKALOVA, Jarmila

On the taxonomy of Palaeodictyoptera (Insecta). Vest Ust geol 38
no.3:197-200 My '63.

1. Katedra paleontologie prirodovedecke fakulty, Karlova
universita, Praha.

KUKALOVA, Jaroslava

Morphology of the oldest known dragonfly *Eraastpteron larialchi* Fruvost,
1933. Vest Est geol 39 no.6:463-464 II '64.

1. Faculty of Natural Sciences of Charles University, Prague. Submitted
May 12, 1964.